

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
11 March 2004 (11.03.2004)

PCT

(10) International Publication Number
WO 2004/021011 A1

(51) International Patent Classification⁷: G01N 33/66

(21) International Application Number:
PCT/KR2002/001634

(22) International Filing Date: 30 August 2002 (30.08.2002)

(25) Filing Language: Korean

(26) Publication Language: English

(71) Applicant (for all designated States except US):
BIOCHEC CO., LTD. [KR/KR]; 4th floor, Danseok
Bldg., 789-30 Yeoksam 1-dong, Kangnam-gu, Seoul
135-929 (KR).

(72) Inventor; and

(75) Inventor/Applicant (for US only): LEE, Gi-ja [KR/KR];
207-2201 Gwanak Booyoung Apt., Booheung-dong, Don-
gahn-gu, Ahnyang, Kyonggi-do 430-054 (KR).

(74) Agent: KIM, Samsoo; 701 Sungji Heights III, 642-6 Yok-
sam-dong, Kangnam-gu, Seoul 135-717 (KR).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK,
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,
MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
VN, YU, ZA, ZM, ZW.

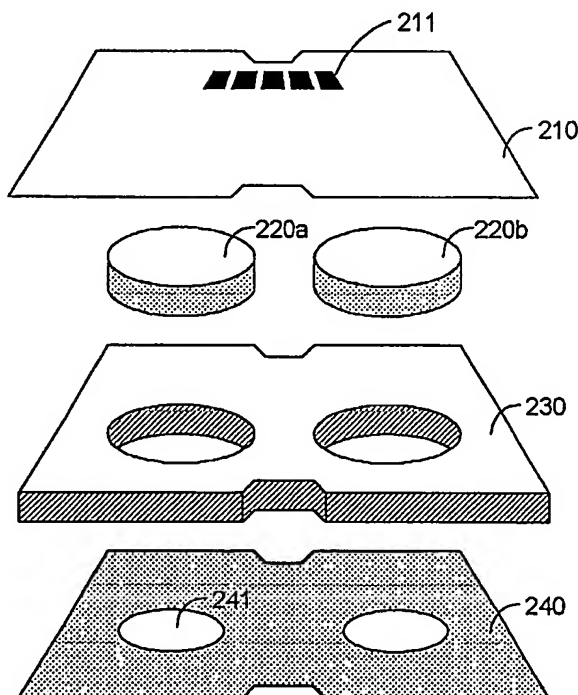
(84) Designated States (*regional*): ARIPO patent (GI, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK,
TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: GLUCOSE EXTRACTION PATCH AND ITS MANUFACTURING PROCESS



(57) Abstract: Glucose extraction patch and its
manufacturing process are provided. The patch comprises
two gel discs containing enzymes that react with glucose to
produce hydrogen peroxide, a frame for having two holes
for accommodating the discs, a supporter for holding the
discs, and a flexible printed circuit. The printed circuit
includes electrodes for contacts with the gel discs, terminals
for electrical connection with a measuring device, and
circuits for electrical connection between the electrodes
and the terminals. The electrodes are formed on the printed
circuit by silk screening. Preprocessing may be applied to
the electrodes after they are formed on the printed circuit.

WO 2004/021011 A1